

# Light and Optics Interest Project

Kinda sorta a little like a very mini-genius  
hour within a topic...



# The Plan Today...

- Understand Purpose
- Brainstorm More Specific Topics
- Choose a topic and Select a group
- ***Determine your “end product” that you will present***
- ***Make a timeline***

# Understand Purpose

- Further explore a topic related to Light and Optics
- Produce a max. 5min presentation/activity that is engaging
- Try out different forms of presenting
- Communicate that learning to class mates

## Choose a topic and Select a Group

- This should be about what interests you!
- Wander and discuss quickly even if you think you've made up your mind
- Within Topics, brainstorm more specific topics
- Groups of 2-3 MAX
- Individual work totally OK
- Groupwork encouraged though...

# Determining different topics to cover

Once you've brainstormed and decided, please:

One person kindly write the names of GROUPS ON THE BACK of the TOPIC SHEET and their SPECIFIC TOPICS. I need this sheet back.

Thank you!!



## Determine an end product...

- Remember Empathy Interviews?
- Think beyond you...Do they like it? Does it fit their needs?
  
- TOPIC: about your interest
- PRESENTATION: about your classmates

# Presentation Ideas - video or live action

- hands -on activity
- show/skit
- Roleplay
- Share prototype
- mini-Kahoot
- Diagrams/visuals
- Interactive website
- Mini-jeopardy
- slides
- Ad poster or presented
- Action demonstration
- Mini-build or challenge

# Assessment

- You will be presenting to a group of your classmates (probably around 8-10?)
- Because you are supposed to have chosen an area of personal interest, and it's time, each person in a presenting group is expected to present and speak somehow -- consider if you prefer to be videotaped ahead of time or what you can do to make this possible if public speaking is a challenge for you.
- I will sit with certain groups if needed once you know who you are presenting to, but I will not be doing individual presentations this time.
- Please approach this project as if you will be presenting to classmates somehow. I WILL take your individual considerations into account if further into the project you are struggling with this part.
- I am hoping to videotape presentation groups ONLY for my own chance to see all the work as a teacher. I will then be deleting the videos.

# Assessment

Suggestions for improvement? Please see Ms. Jennings.  
They are general since the topics vary so much.

Understands and **MAKES CONNECTIONS** between concepts:

- Did the presenter(s) clearly explain how this concept relates to light and optics?
- Did the presenter(s) clearly explain the science behind their concept/idea?

Develops skills for **INQUIRY** and **COMMUNICATION**:

- Did all the presenters speak clearly at some point?
- Did the presenter(s) show interest and enthusiasm for their topic?
- Did the presenter(s) put the explanations in their own words and make the science understandable?
- Did the presenters choose a presentation strategy that was appropriate for their topic?

## Make a timeline

Consider the research, preparing the presentation and PRACTICING.

- Tuesday- 40 mins
- Wednesday- 40 mins - presentation groups assigned
- Thursday - 40 mins
- Friday -40 mins
- Monday - 40 mins -- presentations Tuesday (alternate as necessary)

# Tips for 5 min presentations

**For anyone who needs to do a five-minute presentation, here's what I learned:**

- At most, you have five or six slides. ...
- The slides need to be simple – photos or a few words – that you can talk over.  
...
- Be provocative, outspoken or outrageous. ...
- Writing a script is a no-brainer. ...
- It's super-important to rehearse.

[More items...](#) • Oct 6, 2015

**Eight Tips for a Killer 5-Minute Presentation - Mark Evans**

<https://www.markevans.ca/2015/10/06/success-recipe-5-minute-presentation/>

 About this result

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